

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	374	549/72	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/19 11:03
L2	0	l1 and duloxetine	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/19 11:03
L3	17	duloxetine	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/19 11:04
L4	333	549/74	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/19 11:05
L5	1	l4 and duloxetine	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/19 11:05
L6	217	l4 and thienyl	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/19 11:05
L7	13	l6 and naphthyloxy	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/19 11:05

10542003c

Thiophene + 3-chloropropionic acid

=>

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to prep

3-methylamino-1-(2-thienyl)-  
1-propanone



chain nodes :

12 13 14 15 16 17 19 20 22 23 24 25 26 27 28 29 32 33

ring nodes :

1 2 3 4 5 7 8 9 10 11

chain bonds :

2-23 3-22 4-20 5-19 8-24 9-25 10-26 11-12 12-13 12-14 14-15 14-27 14-33  
15-16 15-28 15-32 16-17 16-29

ring bonds :

1-2 1-5 2-3 3-4 4-5 7-8 7-11 8-9 9-10 10-11

exact/norm bonds :

2-23 3-22 4-20 5-19 8-24 9-25 10-26 12-13 14-27 15-16 15-28 16-17 16-29

exact bonds :

1-2 1-5 2-3 3-4 4-5 7-8 7-11 8-9 9-10 10-11 11-12 12-14 14-15 14-33  
15-32

isolated ring systems :

containing 1 : 7 :

G1:H,CH3

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom

12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 19:CLASS 20:CLASS

22:CLASS 23:CLASS

24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 32:CLASS 33:CLASS

fragments assigned product role:

containing 7

fragments assigned reactant/reagent role:

containing 1

L36 STRUCTURE UPLOADED

=> d

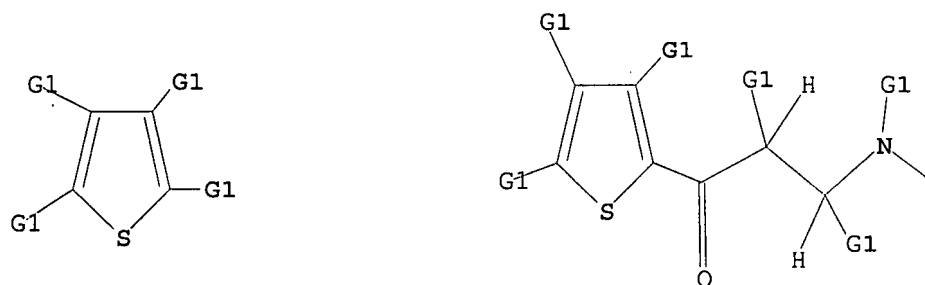
L36 HAS NO ANSWERS

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L36

STR



G1 H, Me

Structure attributes must be viewed using STN Express query preparation.

=> s l36 full

FULL SEARCH INITIATED 12:04:28 FILE 'CASREACT'

SCREENING COMPLETE - 1156 REACTIONS TO VERIFY FROM

228 DOCUMENTS

100.0% DONE 1156 VERIFIED

14 HIT RXNS

3 DOCS

SEARCH TIME: 00.00.01

L37

3 SEA SSS FUL L36 ( 14 REACTIONS)

=> d ibib abs hitstr tot

10542003c

=> d ibib abs tot

L37 ANSWER 1 OF 3 CASREACT COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 144:253785 CASREACT <<LOGINID::20070329>>

TITLE: Thienylsubstituted derivatives of  $\alpha$ -aminobutanoic acid. Practical approach to enantiomerically pure  $\gamma$ -hydroxy- $\alpha$ -aminooctanoic and  $\gamma$ -hydroxy- $\alpha$ -aminononanoic acids

AUTHOR(S): Berkes, Dusan; Gubala, Vladimir; Povazanec, Frantisek

CORPORATE SOURCE: Department of Organic Chemistry, Slovak Technical University, Bratislava, SK-812 37, Slovakia

SOURCE: International Electronic Conferences on Synthetic Organic Chemistry, 5th, 6th, Sept. 1-30, 2001 and 2002 [and] 7th, 8th, Nov. 1-30, 2003 and 2004 (2004), 1393-1404. Editor(s): Seijas, Julio A. Molecular Diversity Preservation International: Basel, Switz. CODEN: 69GTCO

DOCUMENT TYPE: Conference; (computer optical disk)

LANGUAGE: English

AB The series of both syn- resp. anti- $\gamma$ -thienyl- $\gamma$ -hydroxy- $\alpha$ -aminobutanoic acids can be prepared using conjugate addition of chiral nonracemic 1-phenylethylamines on the corresponding  $\beta$ -thienoylacrylic acids and asym. reduction as the key steps of the synthesis. Raney nickel desulfurization in the hydrogen atmospheric represents straightforward access to the enantiomerically pure syn- resp. anti- $\gamma$ -hydroxy- $\alpha$ -aminooctanoic resp. nonanoic acids derivs.

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 2 OF 3 CASREACT COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 141:296283 CASREACT <<LOGINID::20070329>>

TITLE: Stereoselective synthesis and preliminary evaluation of new -3-heteroarylcarbonylalanines as ligands of the NMDA receptor

AUTHOR(S): Lima, Paulo G.; Caruso, Rodrigo R. B.; Alves, Simone O.; Pessoa, Renata F.; Mendonca-Silva, Dayde L.; Nunes, Ricardo J.; Noel, Francois; Castro, Newton G.; Costa, Paulo R. R.

CORPORATE SOURCE: Laboratorio de Quimica Bioorganica, Nucleo de Pesquisas de Produtos Naturais, Centro de Ciencias da Saude, Bloco J, Universidade Federal do Rio de Janeiro, Rio de Janeiro, 21941-590, Brazil

SOURCE: Bioorganic & Medicinal Chemistry Letters (2004), 14(17), 4399-4403  
CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

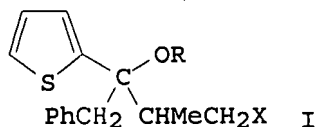
AB New N-heteroarylcarbonylalanines of the D-series were stereoselectively prepared by stereoselective conjugate addition of benzylamine to enolates derived from D-mannitol. These compds. were active in binding and functional assays of the NMDA sub-type of glutamate receptors. (2R)-3-(2-Pyridinylcarbonyl)alanine inhibited MK801 binding, protected neurons from excitotoxic damage and blocked NMDA-induced currents in neurons. (2R)-3-(2-Thienylcarbonyl)alanine pos. modulated the NMDA receptor, possibly through the allosteric glycine site. described.

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10542003c

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 3 OF 3 CASREACT COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 95:219931 CASREACT <<LOGINID::20070329>>  
TITLE: Synthesis of thiophene derivatives  
AUTHOR(S): Zhelyazkov, L.; Natova, L.; Dzhabur, S.  
CORPORATE SOURCE: Bulg.  
SOURCE: Godishnik na Visshiya Khimikotekhnologicheski  
Institut, Sofiya (1981), Volume Date 1978, 24(4),  
67-74  
CODEN: GVKIAH; ISSN: 0489-6211  
DOCUMENT TYPE: Journal  
LANGUAGE: Bulgarian  
GI



AB Acylating thiophene with EtCOCl in C<sub>6</sub>H<sub>6</sub> at 0° yielded 80% 2-propionylthiophene, which was aminomethylated with HCHO and Me<sub>2</sub>NH, pyrrolidine, piperidine or 1-methylpiperazine to give 4 corresponding [(aminomethyl)propionyl]thiophenes in 53.3-68.0% yield. Reductive benzylation of the latter with PhCH<sub>2</sub>MgCl gave 73.6-88.9% carbinols I (R = H, X = secondary amino), which gave 85.0-93.0% I (R = Ac, same X) with AcCl.

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10542003c

chain nodes :

12 13 14 15 16 17 19 20 22 23 24 25 26 27 28 29 32 33 34 35 36  
37 38 39

ring nodes :

1 2 3 4 5 7 8 9 10 11

chain bonds :

2-23 3-22 4-20 5-19 8-24 9-25 10-26 11-12 12-13 12-14 14-15 14-27 14-33  
15-16 15-28 15-32 16-17 16-29 34-35 35-36 35-39 36-37 37-38

ring bonds :

1-2 1-5 2-3 3-4 4-5 7-8 7-11 8-9 9-10 10-11

exact/norm bonds :

2-23 3-22 4-20 5-19 8-24 9-25 10-26 12-13 14-27 15-16 15-28 16-17 16-29  
35-39

exact bonds :

1-2 1-5 2-3 3-4 4-5 7-8 7-11 8-9 9-10 10-11 11-12 12-14 14-15 14-33  
15-32 34-35 35-36 36-37 37-38

isolated ring systems :

containing 1 : 7 :

G1:H,CH3

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom

12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 19:CLASS 20:CLASS

22:CLASS 23:CLASS

24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 32:CLASS 33:CLASS

34:CLASS 35:CLASS

36:CLASS 37:CLASS 38:CLASS 39:CLASS

fragments assigned product role:

containing 7

fragments assigned reactant/reagent role:

containing 1

containing 34

L38 STRUCTURE UPLOADED

=> s l38 full

FULL SEARCH INITIATED 12:07:12 FILE 'CASREACT'

SCREENING COMPLETE - 8 REACTIONS TO VERIFY FROM

4 DOCUMENTS

100.0% DONE 8 VERIFIED

0 HIT RXNS

0 DOCS

SEARCH TIME: 00.00.01

L39 0 SEA SSS FUL L38 ( 0 REACTIONS)

Karen Cheng

10542003c

=>

Uploading C:\Program Files\Stnexp\Queries\10542003e.str



chain nodes :

12 13 14 15 16 17 19 20 22 23 24 25 26 27 28 29 32 33 34 35 36  
37 38 39

ring nodes :

1 2 3 4 5 7 8 9 10 11

chain bonds :

2-23 3-22 4-20 5-19 8-24 9-25 10-26 11-12 12-13 12-14 14-15 14-27 14-33  
15-16 15-28 15-32 16-17 16-29 34-35 35-36 35-39 36-37 37-38

ring bonds :

1-2 1-5 2-3 3-4 4-5 7-8 7-11 8-9 9-10 10-11

exact/norm bonds :

2-23 3-22 4-20 5-19 8-24 9-25 10-26 12-13 14-27 15-16 15-28 16-17 16-29  
35-39

exact bonds :

1-2 1-5 2-3 3-4 4-5 7-8 7-11 8-9 9-10 10-11 11-12 12-14 14-15 14-33  
15-32 34-35 35-36 36-37 37-38

isolated ring systems :

containing 1 : 7 :

G1:H,CH3

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom

12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 19:CLASS 20:CLASS

22:CLASS 23:CLASS

24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 32:CLASS 33:CLASS

34:CLASS 35:CLASS

36:CLASS 37:CLASS 38:CLASS 39:CLASS

fragments assigned product role:

containing 7

fragments assigned reactant/reagent role:

containing 1

containing 34

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10542003c

L38        STRUCTURE UPLOADED

=> s l38 full

FULL SEARCH INITIATED 12:07:12 FILE 'CASREACT'

SCREENING COMPLETE -            8 REACTIONS TO VERIFY FROM            4 DOCUMENTS

100.0% DONE            8 VERIFIED            0 HIT RXNS            0 DOCS

SEARCH TIME: 00.00.01

L39            0 SEA SSS FUL L38 (            0 REACTIONS)